

# Wisconsin Karner Blue Butterfly Habitat Conservation Plan

## Level 1: Habitat Response to Management

### Management Cause and Effect (C-E) Monitoring Form

#### Purpose

This information is used to assess the effects of certain forestry management activities on Karner Blue butterflies and their habitat. Record on this form the habitat response to six specific forestry activities (please see list below). The results from this form will be used to determine if these activities are detrimental, neutral, or beneficial to Karner Blue Habitat.

#### General Instructions

Return the completed form with your annual report or sooner each year to: *Wisconsin Department of Natural Resources, Attn: HCP Coordinator, FR/4, 101 S. Webster St., PO Box 7921, Madison, WI 53707-7921* Questions? Contact the HCP Data Manager at (608-266-9680); [DNRKarnerBlue@wisconsin.gov](mailto:DNRKarnerBlue@wisconsin.gov) or Dave Lentz (608-261-6451; [David.Lentz@Wisconsin.gov](mailto:David.Lentz@Wisconsin.gov)). Refer to your HCP monitoring training packet for specific information about monitoring protocols. **Remember to keep a copy of this completed form for your records!**

#### Partner & Surveyor Information

\*\*\*\*\*This survey requires a visit during BOTH flight periods\*\*\*\*\*

Dates of survey: First flight \_\_\_\_\_ Second flight \_\_\_\_\_ Name of landowner/partner: \_\_\_\_\_

Name of surveyor(s) (*first and last*): \_\_\_\_\_

Have you completed monitoring training from the Wisconsin DNR (*check one*): Yes ☐ No ☐

If yes, what is the most recent year you attended training: \_\_\_\_\_ (*certification is generally valid for 5 years*)

If no, who were you trained by: \_\_\_\_\_

#### Site Location & Description

Site location:

Site code: \_\_\_\_\_ County: \_\_\_\_\_  
 Partner site code: \_\_\_\_\_ Property code: \_\_\_\_\_  
 Site name: \_\_\_\_\_ Site size (*acres*): \_\_\_\_\_  
 Legal description: Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_ 1/4, 1/4 \_\_\_\_\_  
 GPS Coord. (if available): \_\_\_\_\_

Survey type (*check one*):

- ☐ Pre-management  
☐ Post-management  
☐ On-going management

#### Site Management Information

Please list anticipated dates of anticipated management activities, or last management activities and date (*choose from the list below and fill-in the date*):

ACTIVITY CODE	ACTIVITY	DATE OF ACTIVITY	LAST HARVEST YEAR
SM-1	Construct access roads and landing areas for timber harvests that are seeded to lupine and nectar plants post-sale		-----
SM-2	Construct access roads and landing areas for timber harvest not seeded to lupine.		-----
SM-3	Mechanical Site Prep – <25% or less disturbance (Bracke scarifier, light intensity roller chopper)		
SM-4	Mechanical Site Prep – 25-60% disturbance (disc trencher, roller chopper or v-plow)		
SM-5	Mechanical Site Prep – >60% disturbance (brush disking, high intensity roller chopper, blade scarification)		
SM-6	Chemical Release – Broadcast application of herbicides to control vegetation competing for moisture, soil nutrients, and sunlight (typically Accord, Garlon, and Oust)		

**Lupine Observations**1. Lupine survey method (*check one*):
☐ transects covering entire site    ☐ transects covering portion of site    ☐ random walk
2. Is lupine present on the site? (*circle one*):    **Y**    **N**    (*PLEASE CONTINUE*)3. Are there at least 25 plants or clumps of lupine, at a density of 50 lupine plants/acre, or 25 lupine plants/200 meters for linear (e.g. right-of-way) sites? (*circle one*):    **Y**    **N**    (*PLEASE CONTINUE*)

4. Estimate approximate sizes (in acres) of the following: Habitat area: \_\_\_\_\_ Lupine area: \_\_\_\_\_ Nectar plant area: \_\_\_\_\_

5. Distribution pattern of lupine (*circle one*):    1    2    3    4  
(*scattered patches*)    (*uniform throughout*)6. Number of plants or clumps of lupine (*circle one*):    **10's**    **100's**    **1,000's**    **10,000+**7. Relative abundance of lupine (*check one*):    ☐ Dominant, abundant    ☐ Locally abundant, frequently encountered  
☐ Infrequent, occasional    ☐ Rare, very few plants seen8. **Required:** Negative factors:

- ☐ Mildew on lupine  
☐ Other disturbances (*i.e.* ATVs)  
☐ Browsing  
☐ Encroaching trees or shrubs  
     *Circle one: increased, decreased, or stayed the same* after management  
☐ Barren soil or little vegetative response  
☐ Agricultural sprays  
☐ Other chemicals: \_\_\_\_\_  
☐ Competing with (*e.g.* bracken, sedges, shrubs, etc) \_\_\_\_\_  
☐ Exotic/Invasive plants (*indicate species, severity*)  
     *Circle one: increased, decreased, or stayed the same* after management

9. Other comments (*how is the vegetation responding to management?*): \_\_\_\_\_**Nectar Plant Information (Important: nectar surveys both flights are required)***Please assess the general availability of nectar plants during each Karner blue butterfly flight period.***\*\*\* Required Information:** \*\*\*\*\*General availability of nectar plants during 1<sup>st</sup> flight period: ☐ Abundant - (50% or more coverage of nectar area)  
(*first flight periods are generally late May- June*)    ☐ Common - (25-50% coverage)  
☐ Scarce - (<25% coverage)General availability of nectar plants during 2<sup>nd</sup> flight period: ☐ Abundant - (50% or more coverage of nectar area)  
(*second flight periods are generally mid-July-mid-August*)    ☐ Common - (25-50% coverage)  
☐ Scarce - (<25% coverage)**\*\*Optional Information:** \*\*\*\*\*

Nectar plants	1 <sup>st</sup> flight period (common, scarce, or abundant)	2 <sup>nd</sup> flight period (common, scarce, or abundant)
Rock Cress		
Wild strawberry		
Violets		
Dewberry		
Blackberry		
Downy phlox		
Daisy fleabane		
Flowering spurge		
Leafy spurge		
Hawkweed		
Yarrow		
Cinquefoil		
Puccoon		

Nectar plants	1 <sup>st</sup> flight period (common, scarce, or abundant)	2 <sup>nd</sup> flight period (common, scarce, or abundant)
Clover		
Common milkweed		
Butterfly milkweed		
Bergamot		
Asters		
Goldenrod		
Horsemint		
Leadplant		
Coreopsis		
Fleabane		
Black-eyed susan		
New Jersey tea		
Blazing star		

**Site Map**

*Attach or use the space below to draw a site map with lupine patches and nectar plant patches clearly indicated. Supply enough information for future surveyors to be able to relocate and survey the habitat within the site by including landmarks, waterways, distances, cardinal directions, transect locations, etc.*